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Dr. Patterson, from the Committee appointed in relation to the buildings of the Society, made a further report of progress; and on his motion, additional powers were conferred on the Committee.

Stated Meeting, October 1.

Present, twenty-nine members.

Mr. DU PONCEAU, President, in the Chair.

Letters were received and read—

From the Royal Geographical Society of London, dated May 12, and July 12, 1841,—the Zoological Society of London, dated August 20, and November 7, 1840, and January 13, May 19, and July 9, 1841,—the Horticultural Society of London, dated July 20, 1841,—and the Linnean Society of London, dated August 12, 1841; announcing the transmission of donations to the Library, and acknowledging the receipt of the Transactions and Proceedings of the Society:—

From Dr. H. J. Bowditch, of Boston, dated Sept. 14, 1841, accompanying a Report of the Bowditch Library, and acknowledging the receipt of the Transactions and Proceedings:—

From Col. J. R. Jackson, dated London, July 19, 1841, transmitting through Mr. Du Ponceau to the Society his work, entitled, “What to Observe:”—

From Mr. Joseph E. Bloomfield, dated New York, September 26, 1841, relative to a deposit made by him with the Society, of two silver goblets and a cestus, taken by one of Pizarro’s soldiers from the Temple of the Sun, in Peru:—

From the Chief Engineer U. S. A., Col. Totten, dated Washington, September 17, 1841, accompanying a donation to the Library; and from Mr. John B. Murray, dated Liverpool, August 28, 1841, offering to the Society, on certain conditions, a printing press at which Dr. Franklin worked when in England. This letter was referred to a committee.

The following donations were announced:—

FOR THE LIBRARY.

- Journal of the Royal Asiatic Society of Great Britain and Ireland.
Vol. VI. No. 12. London, 1841. 8vo.—*From the Society.*
- Proceedings of the Committee of Commerce, &c. of the Royal Asiatic Society, 1841. London. 8vo.—*From the same.*
- Transactions of the Linnean Society. Vol. XVIII. Part 4. London, 1841. 4to.—*From the Society.*
- Memoirs of the American Academy:—An Account of the Magnetic Observations made at the Observatory of Harvard University, Cambridge. By Joseph Lovering, Hollis Professor, &c. and W. Cranch Bond, &c. &c. 4to.—*From the Academy.*
- Annales des Mines. 3me Sér. Tome XVIII. 4me, 5me, and 6me Livrns. Paris, 1840. 8vo.—*From the Ingenieurs des Mines.*
- Journal Asiatique. 3me Sér. Tome XI. Nos. 61, 62, 63. Paris, 1841. 8vo.—*From the Asiatic Society, Paris.*
- Bulletin de la Société de Géographie. Juillet, 1840. 8vo.—*From the Society.*
- Nouveaux Tableaux de Lecture, assujettés au système de l'enseignement mutuel. Paris, 1835. Fol.—*From Mr. Du Ponceau.*
- Annual Reports of the Royal Cornwall Polytechnic Society, 1839 and 1840. Falmouth. 8vo.—*From Mr. Robert Were Fox.*
- Report on some Observations on Subterranean Temperature. By Robert Were Fox. London, 1841. 8vo.—*From the same.*
- Descriptiones et Icones Amphibiorum, auctor Dr. Joannes Wagler. Fasciculi 1, 2, 3. Fol.—*From Dr. Holbrook.*
- Tijdschrift voor Natuurlijke Geschiedenis en Physiologie; Uitgegeven door J. Van der Hoeven, M.D., &c. en W. H. de Vriese, M.D., &c. Vol. VIII. No. 3. Leyden, 1841. 8vo.—*From the Editors.*
- Papers on Practical Engineering. Published by the Engineer Department of the U. S. Army. Washington, 1841. 8vo.—*From Col. J. G. Totten.*
- Essai sur la Philosophie des Sciences, &c., par André-Marie Ampère, &c. &c. Paris, 1834. 8vo.—*From Professor Henry.*
- Informe presentado a la Real Junta de Fomento de Agricultura, &c. de Cuba, en el Expediente sobre la Escuela Nautica, &c. Havana, 1834. Fol.—*From Señor de la Susa.*
- Impugnacion al Examen de Cousin sobre el ensayo del Entendimiento

Humano de Locke. Entregas I. II. Havanna, 1840. 8vo.—*From the same.*

Remarks on the Abracadabra of the Nineteenth Century, or on Dr. Samuel Hahnemann's Homœopathic Medicine, &c. By William Leo-Wolf, M.D. New York, 1835. 8vo.—*From some of the Physicians of Philadelphia.*

The Case of the Seneca Indians, in the State of New York, illustrated by Facts. Philadelphia, 1840. 8vo.—*From Mr. G. M. Justice.*

A Further Illustration of the Case of the Seneca Indians in the State of New York, &c. &c. Philadelphia, 1841. 8vo.—*From the same.*

Report of the Proprietors of the Bowditch Library. Boston, 1841.—*From the Proprietors.*

Notice of a Model of the Western Portion of the Schuylkill or Southern Coal Field of Pennsylvania. By Richard C. Taylor, &c. &c.—*From the Author.*

Address before the Phi Beta Kappa Society of Union College, 27th July, 1841. By William Kent.—*From Mr. Du Ponceau.*

Printer's Pension Society: List of Subscribers, Rules and Regulations, 13th and 14th Annual Reports, &c. &c. London, 1840, 1841.—*From the Society.*

History of the United States, in Chinese. By Bridgman.—*From Rev. Joseph S. Travelli.*

Tracts in the Malay Language: Natural History, &c. &c.; and a Tract in the Bugis Language of Macassar.—*From the same.*

Donations were made to the Cabinet, in the name of the late Joshua Gilpin, Esq., of a specimen of rock from the highest pinnacle of Mont Blanc, which had been presented to him by Professor de Saussure in 1798; and of the tusk of a swordfish which was darted into an American ship in the Chinese Sea, and there broken off.

Dr. Patterson presented a continuation of Mr. Borden's paper on the Survey of Massachusetts, which was referred to a Committee.

Professor Bache called the attention of the Society to the "Account of the Magnetic Observations made at the Observatory of Harvard University, Cambridge," by Prof. Lovering and Mr. Bond, printed in the Memoirs of the American Academy at Boston, and presented this evening to the Society.

This paper contains an account of the observatory, and of the transit and magnetic declination instruments with which it was provided, of the mode and times of observing, with deductions from the observations, and tables of the observations themselves. Among other interesting matter, is the investigation of an empirical formula, expressing the daily changes of magnetic declination in terms of the solar time, by Prof. Peirce, and a comparison of the magnetic declination and dip deduced from Gauss' formula, with those elements as obtained by observation. Besides the monthly term-days, several extra days in each month had been devoted to observations at short periods. The bi-hourly observations had not been attempted. The paper closes with an account of the new observatory, and of the complete set of magnetic instruments with which it is furnished.

Dr. Hays invited the attention of the Society to a very extensive and highly interesting collection of fossil bones, chiefly of the Mastodon, recently brought to this city by Mr. Albert Koch, of St. Louis.

Dr. H. stated that this collection comprises portions of twenty-three lower and eleven upper jaws, of upwards of two hundred teeth, and a sufficient number of the other bones to form a nearly complete skeleton.

Four of the lower jaws appertain to the genus *Tetracaulodon*. One of these is remarkable from having a single alveolus for a tusk. This alveolus is on the right side; and in its form, position, and size, is similar to that of a specimen in the collection of the Society, described and figured in the Transactions, Vol. IV. Pl. XXIX. There is not the slightest trace of a corresponding alveolus ever having existed on the other side. Two other jaws have also only a single alveolus; but the specimens are too imperfect to determine whether or not they had another, though Dr. H. infers that they had, and that the existence of a single tusk in the lower jaw was a merely accidental occurrence. The specimen described by Dr. Godman has two, and also that belonging to the Museum of the University of Virginia. See Vol. IV. of the Transactions, Plates XXVI. and XXVII.

The fragment of a fourth jaw is particularly interesting, from its apparently belonging to a distinct variety, if not even a new species, of *Tetracaulodon*. This consists of the chin, and a portion of the left side. In the chin there is a small alveolus on each side. This jaw is strikingly similar to one in the Cabinet of the Society, and described

by Dr. H. as belonging to the young of the *M. giganteum*. See Transactions, Vol. IV., N. S., Pl. XX. In the latter specimen the alveolus was so small and imperfect, and so different from that in the species of *Tetracaulodon* then known, that Dr. H. considered it an accidental formation. In the specimen in Mr. Koch's collection the alveolus is sufficiently perfect, the lining plate of bone in part remaining, to place beyond all doubt its being a socket for a tusk.

Two of the fragments of upper jaws are extremely interesting, from possessing, one an entire tusk, and the other the inner portion of both tusks, apparently in their original position; thus solving the problem as to the position of the tusks in this genus, and showing it to be the same as in the elephant.

The collection of bones forming the skeleton, called by Mr. Koch the *Missourium*, though very unnaturally put together, is an object of interest, from the large size and fine state of preservation of some of the bones, particularly the femur and the atlas. The head is far less perfect than the one belonging to the Society. The whole vault of the cranium, except the inner table, is wanting. The two tables of the cranium being widely separated in this genus, the absence of the outer table and the diploe gives to the head a remarkably flat appearance. This, with the *smoothness* of a great part of the upper surface, resulting from the natural structure of the cells of the diploe, which are very large, led Mr. Koch to believe that the cranium was entire, and that it belonged to an animal different from the *Mastodon*.

Professor Bache presented some further astronomical observations from Mr. Rümker, of Hamburg.

These observations are published in the *Astronomische Nachrichten*, No. 432, which has been received in this country since the meeting of the Society.

Stated Meeting, October 15.

Present, thirty-seven members.

Judge HOPKINSON, Vice President, in the Chair.

Letters were received and read—

From the Royal Society of Sciences of Copenhagen, dated